

What is claimed:

1. A pigment comprising a pigmentary base that has been treated with the products resulting from the reaction of organic alcohols and either P_2O_5 or phosphoric acid, wherein said products are present in an amount from about 0.01 percent to about 5 percent by weight based on the weight of the pigmentary base.

2. A pigment according to claim 1, wherein the pigmentary base has been treated with the products resulting from the reaction of organic alcohols, P_2O_5 and phosphoric acid.

3. A pigment comprising a pigmentary base that has been treated with an organo-acid phosphate compound having the formula:



wherein $x = 1$ or 2 ;

$y = 3 - x$; and

R is an organic group having from 2 to 22 carbon atoms,

and wherein the organo-acid phosphate compound is present in an amount from about 0.01 percent to about 5 percent by weight, based on the weight of the pigmentary base.

4. A pigment according to claim 1, wherein the pigmentary base is selected from the group consisting of titanium dioxide, kaolin, talc, mica and calcium carbonate.

5. A pigment according to claim 3, wherein the pigmentary base is selected from the group consisting of titanium dioxide, kaolin, talc, mica and calcium carbonate.

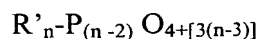
6. A pigment according to claim 4, wherein the pigmentary base is titanium dioxide.

7. A pigment according to claim 5, wherein the pigmentary base is titanium dioxide.

8. A pigment according to claim 1, wherein the pigmentary base is treated with a compound selected from the group consisting of polyalcohols, alkanolamines, aluminum oxide, silicon dioxide and zirconium oxide.
9. A pigment according to claim 3, wherein the pigmentary base is treated with a compound selected from the group consisting of polyalcohols, alkanolamines, aluminum oxide, silicon dioxide and zirconium oxide.
10. A pigment according to claim 8, wherein the pigmentary base is treated with trimethylolpropane or triethanolamine.
11. A pigment according to claim 9, wherein the pigmentary base is treated with trimethylolpropane or triethanolamine.
12. A pigment according to claim 1, wherein the organic alcohol is a hexanol or an octanol.
13. A pigment according to claim 3, wherein R is hexyl- or octyl- .
14. A pigment according to claim 1, wherein the organic alcohol is 2-ethylhexanol.
15. A pigment according to claim 3, wherein R is 2-ethylhexyl-.
16. A pigment comprising a pigmentary base that has been treated with a salt of the organo-acid phosphate compound of claim 3.
17. A polymer matrix comprised of a polymer and the pigment of claim 1.
18. A polymer matrix comprised of a polymer and the pigment of claim 3.
19. A polymer matrix according to claim 17, wherein the polymer is polyethylene.

20. A polymer matrix according to claim 18, wherein the polymer is polyethylene.
21. A polymer matrix according to claim 17, wherein the amount of the pigment is from about 50 percent to about 85 percent by weight of the polymer matrix, based on the weight of the polymer matrix.
22. A polymer matrix according to claim 18, wherein the amount of the pigment is from about 50 percent to about 85 percent by weight of the polymer matrix, based on the weight of the polymer matrix.
23. A method for preparing a pigment, comprising combining a pigmentary base and an organo-acid phosphate compound, wherein the organo-acid phosphate compound comprises of the reaction products of organic alcohols, and either P₂O₅ or phosphoric acid.
24. A method for preparing a pigment, comprising combining a pigmentary base and an organo-acid phosphate compound, wherein the organo-acid phosphate compound has the formula:
$$(R-O)_xPO(OH)_y$$

wherein $x = 1$ or 2 ;
 $y = 3 - x$; and
R is an organic group having from 2 to 22 carbon atoms; and
wherein the amount of organo-acid phosphate is from about 0.01 to about 5 weight percent based on the weight of the pigmentary base.
25. A method according to claim 24, wherein said combining occurs at a temperature of from about 10 °C to about 270 °C.
26. A method for treating a pigment comprising treating a pigmentary base with a salt of the organo-acid phosphate compound of claim 24.
27. A pigment comprising a pigmentary base that has been treated with an organo-phosphoric acid compound having the formula:



wherein $n = 4 - 14$; and each R' is an organic group having from 2 to 22 carbon atoms or hydrogen and within any one molecule, any two or more R' groups may be the same provided that at least one of the R' groups is not hydrogen; and

wherein the organo-phosphoric acid compound is present in an amount from about 0.01 percent to about 5 percent by weight based on the weight of the pigmentary base.

28. A pigment comprising a pigmentary base that has been treated with an organo-phosphate acid compound having the formula:



wherein $m = 1 - 14$, and each R'' is an organic group having from 2 to 22 carbon atoms or hydrogen and within any one molecule, any two or more R'' groups may be the same provided that at least one of the R'' groups is not hydrogen; and

wherein the organometaphosphate compound is present in an amount from about 0.01 percent to about 5 percent by weight based on the weight of the pigmentary base.

29. A pigment according to claim 27, wherein the pigmentary base is selected from the group consisting of titanium dioxide, kaolin, talc, mica and calcium carbonate.

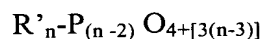
30. A pigment according to claim 28, wherein the pigmentary base is selected from the group consisting of titanium dioxide, kaolin, talc, mica and calcium carbonate.

31. A pigment according to claim 29, wherein the pigmentary base is titanium dioxide.
32. A pigment according to claim 30, wherein the pigmentary base is titanium dioxide.
33. A pigment according to claim 27, wherein the pigmentary base is treated with a compound selected from the group consisting of polyalcohols, alkanolamines, aluminum oxide, silicon dioxide and zirconium oxide.
34. A pigment according to claim 28, wherein the pigmentary base is treated with a compound selected from the group consisting of polyalcohols, alkanolamines, aluminum oxide, silicon dioxide and zirconium oxide.
35. A pigment according to claim 27, wherein the pigmentary base is treated with trimethylolpropane or triethanolamine.
36. A pigment according to claim 28, wherein the pigmentary base is treated with trimethylolpropane or triethanolamine.
37. A pigment comprising a pigmentary base that has been treated with a salt of the organo-phosphoric acid compound of claim 27.
38. A pigment comprising a pigmentary base that has been treated with a salt of the organo-phosphate acid compound of claim 28.
39. A polymer matrix comprised of a polymer and the pigment of claim 27.
40. A polymer matrix comprised of a polymer and the pigment of claim 28.
41. A polymer matrix according to claim 39, wherein the polymer is polyethylene.
42. A polymer matrix according to claim 40, wherein the polymer is polyethylene.

43. A polymer matrix according to claim 41, wherein the amount of the pigment is from about 50 percent to about 85 percent by weight of the polymer matrix, based on the weight of the polymer matrix.

44. A polymer matrix according to claim 42, wherein the amount of the pigment is from about 50 percent to about 85 percent by weight of the polymer matrix, based on the weight of the polymer matrix.

45. A method for preparing a pigment, comprising combining a pigmentary base and an organo-phosphoric acid compound, wherein the organo-phosphoric acid compound has the formula:



wherein $n = 4 - 14$; and each R' is an organic group having from 2 to 22 carbon atoms or hydrogen and within any one molecule, any two or more R' groups may be the same provided that at least one of the R' groups is not hydrogen; and

wherein the organo-phosphoric acid compound is present in an amount from about 0.01 percent to about 5 percent by weight of the pigmentary base, based on the weight of the pigmentary base.

46. A method for preparing a pigment comprising combining a pigmentary base with a salt of the organo-phosphoric acid compound of claim 45.

47. A method for preparing a pigment, comprising combining a pigmentary base and an organometaphosphate compound, wherein the organometaphosphate compound has the formula:



wherein $m = 1 - 14$, and each R'' is an organic group having from 2 to 22 carbon atoms or hydrogen and within any one molecule, any two or more R'' groups may be the same provided that at least one of the R'' groups is not hydrogen; and

wherein the organometaphosphate compound is present in an amount from about 0.01 percent to about 5 percent by weight of the pigmentary base, based on the weight of the pigmentary base.

48. A method for preparing a pigment comprising combining a pigmentary base with a salt of the organometaphosphate acid compound of claim 47.

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